

Title (en)

ELECTROHYDROSTATIC ACTUATOR SYSTEM WITH AN EXPANSION RESERVOIR

Title (de)

ELEKTROHYDROSTATISCHES AKTUATORSYSTEM MIT NACHSAUGBEHÄLTER

Title (fr)

SYSTÈME ACTIONNEUR ÉLECTROHYDROSTATIQUE À RÉSERVOIR D'ASPIRATION

Publication

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Application

**EP 19753311 A 20190808**

Priority

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Abstract (en)

[origin: WO2020035398A1] An electrohydrostatic actuator system comprising: a volume- and/or speed-variable hydraulic machine which is driven by an electric motor, for providing a volumetric flow of a hydraulic fluid; a differential cylinder with a piston side and a ring side, and at least one pretensioning source. The actuator system has a closed hydraulic circuit, wherein, during operation, the hydraulic fluid in the hydraulic circuit is pressurized by means of the hydraulic machine and/or the pretensioning source. Furthermore, according to the invention, the differential cylinder provides a power motion operating mode and a rapid motion operating mode. In order to balance a volume of the hydraulic fluid in the closed hydraulic circuit, according to the invention an expansion reservoir is connected to the piston side of the differential cylinder via a valve.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2020035398A1

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**WO 2020035398 A1 20200220**; CN 112567139 A 20210326; CN 112567139 B 20230613; DE 102018120000 A1 20200220; EP 3837446 A1 20210623; EP 3837446 B1 20220928; US 11603867 B2 20230314; US 2021332831 A1 20211028

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